

product type designation



W1788-2 M12 EEC

- - spare part - - WLAN access point, SCALANCE W1788-2 M12 EEC, 2 radios, 8 N-CON antennas iFeatures support via CLP, IEEE 802.11 a/b/g/h/n/ac, 2.4/5 GHz, gross 1733 Mbps per radio, 2x M12 max. 1 Gbps, PoE, redundant 24 V DC, M12 A-coded IP65, -40..+75 °C, CLP slot, WPA2/802.11i/e, conformal coating EN 50155, EN 45545, observe national approvals! CERT ID: RAPAC-W2-M12-E4, includes: MPCIE-R1-ABGNAC-U4, scope of delivery: M12 sealing caps, for operation outside of USA/Israel

transfer rate

transfer rate	1733 Mbit/s
• with WLAN / maximum	1733 Mbit/s
• for Industrial Ethernet	10, 100, 1000 Mbit/s

interfaces

number of electrical/optical connections / for network components or terminal equipment / maximum / note	2
number of electrical/optical connections / for gigabit Ethernet / maximum	2
number of electrical connections	
• for network components or terminal equipment	2
• for power supply	1
• for redundant voltage supply	1
type of electrical connection	
• for network components or terminal equipment	M12 interface (8-pole, X-coded), PoE
• for power supply	M12 interface (4-pole, A-coded)

memory

design of the removable storage	
• CLP	Yes
• CLP iFeatures	Yes

interfaces / wireless

number of radio cards / permanently installed	2
transmission mode / for multiple input multiple output (MIMO)	4x4
number of spatial streams	4
number of electrical connections / for external antenna(s)	8
type of electrical connection / for external antenna(s)	N-Connect (socket)
product feature / external antenna can be mounted directly on device	Yes

supply voltage, current consumption, power loss

type of voltage / of the supply voltage	DC
supply voltage	
• from Power-over-Ethernet according to IEEE802.3at for type 2	48 V
consumed current	
• at DC / at 24 V / typical	0.7 A
• with Power-over-Ethernet according to IEEE802.3at for type 2 / typical	0.385 A
power loss [W]	
• at DC / at 24 V / typical	16.8 W
• with Power-over-Ethernet according to IEEE802.3at for type 2 / typical	18.5 W

supply voltage / 1	• from M12 Power Connector (A-coded) for redundant power supply	16.8 V
supply voltage / 2	• from M12 Power Connector (A-coded) for redundant power supply	31.2 V
ambient conditions		
ambient temperature	• during operation	-40 ... +75 °C
	• during storage	-40 ... +85 °C
	• during transport	-40 ... +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum		90 %
protection class IP		IP65
design, dimensions and weights		
width		258 mm
height		258 mm
depth		80 mm
width / of the enclosure / without antenna		258 mm
height / of the enclosure / without antenna		258 mm
depth / of the enclosure / without antenna		80 mm
net weight		2.7 kg
product feature / conformal coating		Yes
fastening method	Accessories are required for wall mounting and mounting on a mounting rail.	
• S7-300 rail mounting		Yes
• S7-1500 rail mounting		Yes
• 35 mm DIN-rail mounting		Yes
• wall mounting		Yes
radio frequencies		
operating frequency	2.41 ... 2.48 GHz; depending on the country approvals	
• for WLAN in 2.4 GHz frequency band	4.9 ... 5.8 GHz; depending on the country approvals	
• for WLAN in 5 GHz frequency band		
product features, product functions, product components / general		
product function / Access Point Mode		Yes
product function / client Mode		Yes
number of SSIDs		16
product function		
• iPCF Access Point		No
• iPCF client		No
• iPCF-MC Access Point		No
• iPCF-MC client		No
product function / iREF		No
product function / iPRP		Yes
product functions / management, configuration, engineering		
product function		
• CLI		Yes
• web-based management		Yes
• MIB support		Yes
• TRAPs via email		Yes
• configuration with STEP 7		Yes
• configuration with STEP 7 in the TIA Portal		Yes
• operation with IWLAN controller		No
• forced roaming with IWLAN		Yes
• forced roaming on IP down with IWLAN		Yes
• forced roaming on link down with IWLAN		No
• WDS		Yes
protocol / is supported		
• Address Resolution Protocol (ARP)		Yes
• ICMP		Yes
• Telnet		Yes
• HTTP		Yes

• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	Yes
identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 - higher level designation/location designation	Yes
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
product functions / diagnostics	
product function	
• PROFINET IO diagnosis	Yes
protocol / is supported	
• SNMP v1	Yes
• SNMP v2c	Yes
• SNMP v3	Yes
product functions / VLAN	
product function	
• function VLAN with IWLAN	Yes
product functions / DHCP	
product function	
• DHCP client	Yes
• DHCP server	Yes
• DHCP Option 82	Yes
product functions / redundancy	
protocol / is supported	
• STP/RSTP	Yes
• MSTP	Yes
• RSTP	Yes
product functions / security	
product function	
• ACL - MAC-based	No
• management security, ACL-IP based	Yes
• IEEE 802.1x (radius)	Yes
• NAT/NAPT	No
• access protection according to IEEE802.11i	Yes
• WPA/WPA2	Yes
• TKIP/AES	Yes
protocol / is supported	
• SSH	Yes
• RADIUS	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• SNTP	Yes
• SIMATIC time synchronization (SIMATIC Time)	Yes
standards, specifications, approvals	
standard	
• for FM	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4, FM16US0205X
• for safety / from CSA and UL	IEC 62368-1, UL 60950-1 E115352-A6001
certificate of suitability	
• EC Declaration of Conformity	Yes
• CE marking	Yes
• C-Tick	Yes
• E1 approval	Yes
• railway application in accordance with EN 50155	Yes
• railway application in accordance with EN 50121-4	Yes
• fire protection in accordance with EN 45545-2	Yes
• IEC 61850-3	No
• Power-over-Ethernet according to IEEE802.3at for type 2	Yes
standard for wireless communication	

• IEEE 802.11a	Yes
• IEEE 802.11b	Yes
• IEEE 802.11e	Yes
• IEEE 802.11g	Yes
• IEEE 802.11h	Yes
• IEEE 802.11i	Yes
• IEEE 802.11n	Yes
• IEEE 802.11ac	Yes
wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
reference code	KFE
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN IEC 60079-0 : 2018, EN60079-7:2015 + A1 : 2018; II 3 G Ex ec IIC T4 Gc
• from CSA and UL	UL121201, CAN/CSA C22.2 No.213, Cl. 1, div. 2, GP. A, B, C, D, T4 / Cl. 1, Zone 2, GP IIC T4, E240480
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
• as marking	Ex nA IIC T4 Gc
accessories	
accessories	pre-assembled holder for attachment to a DIN rail
further information / internet links	
internet link	<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: WLAN country approval • to the website: WLAN • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support
https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/wireless-approvals https://www.siemens.com/iwlan https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com	
security information	
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)



General Product Approval

For use in hazardous locations



[CCC-Ex](#)



[Miscellaneous](#)

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